

New York State Department of Transportation

Yellow Flag NB22CTW009

By: Rehan Afridi

Flag Date: April 01, 2022

Superseding Information:

This flag supersedes: YF NB2122W029

Structure Information

BIN: 1065318

Feature Carried: 278I278IX2M23027

Feature Crossed: 6TH AVENUE

Orientation: 8 - NORTHWEST

Region: 11 - NEW YORK CITY

County: KINGS

Political Unit: City of NEW YORK

Approximate Year Built: 1962

Posted Load Matches Inventory : Yes

Bridge Load Posting (Tons) : Not Posted for Load

Primary Owner: New York State Department of Transportation

Primary Maintenance Responsibility: 12 - State - Subcontracted to another Party

Typical or Main Span Type: 3 - Steel, 02 - Stringer/Multi-Beam or Girder

This Bridge is not a Ramp

Number of Spans: 322

Verbal Notification Information

Person Notified: Heinz Joachim, P.E.

Date: April 01, 2022 10:00:00 AM

Of: NYSDOT Region 11

Signature Information

Signature: Rehan Afridi, P.E. 075185

Date: April 19, 2022

Reviewed By: Robert Kemp

Date: April 19, 2022

Attachments: 6

Flagged Elements

| Parent Element | Element | Total Quantity | Unit |
|--------------------------|------------------------------|----------------|------|
| Span Number : 182 | | | |
| | 107 - Steel Open Girder/Beam | 989 | ft |
| | PR831 - Steel Beam End | 42 | each |

Flagged Condition Description

This Yellow Flag NB22CTW009 supersedes previously issued Yellow Flag NB2122W029.

Location: Span 182, Girder G1 at Pier 182.

Description: The left clip connection angle of Girder G1 connection to pier cap at Pier 182 exhibits a 5" long vertical corrosion crack x 1/2" wide at the upper fillet section (deterioration induced cracking). This condition has not changed since the last inspection.

The affected member Girder G1 is a load path redundant steel girder consisting of a web depth of approximately 19.5" inches and thickness of 0.608 inches. The width of the top and bottom flanges is 9.0 inches. The spacing between Girder G1 and Girder G2 (right) is 5'-3" on center and 2'-0" on center between Girder G1 and the left fascia Stringer S1.

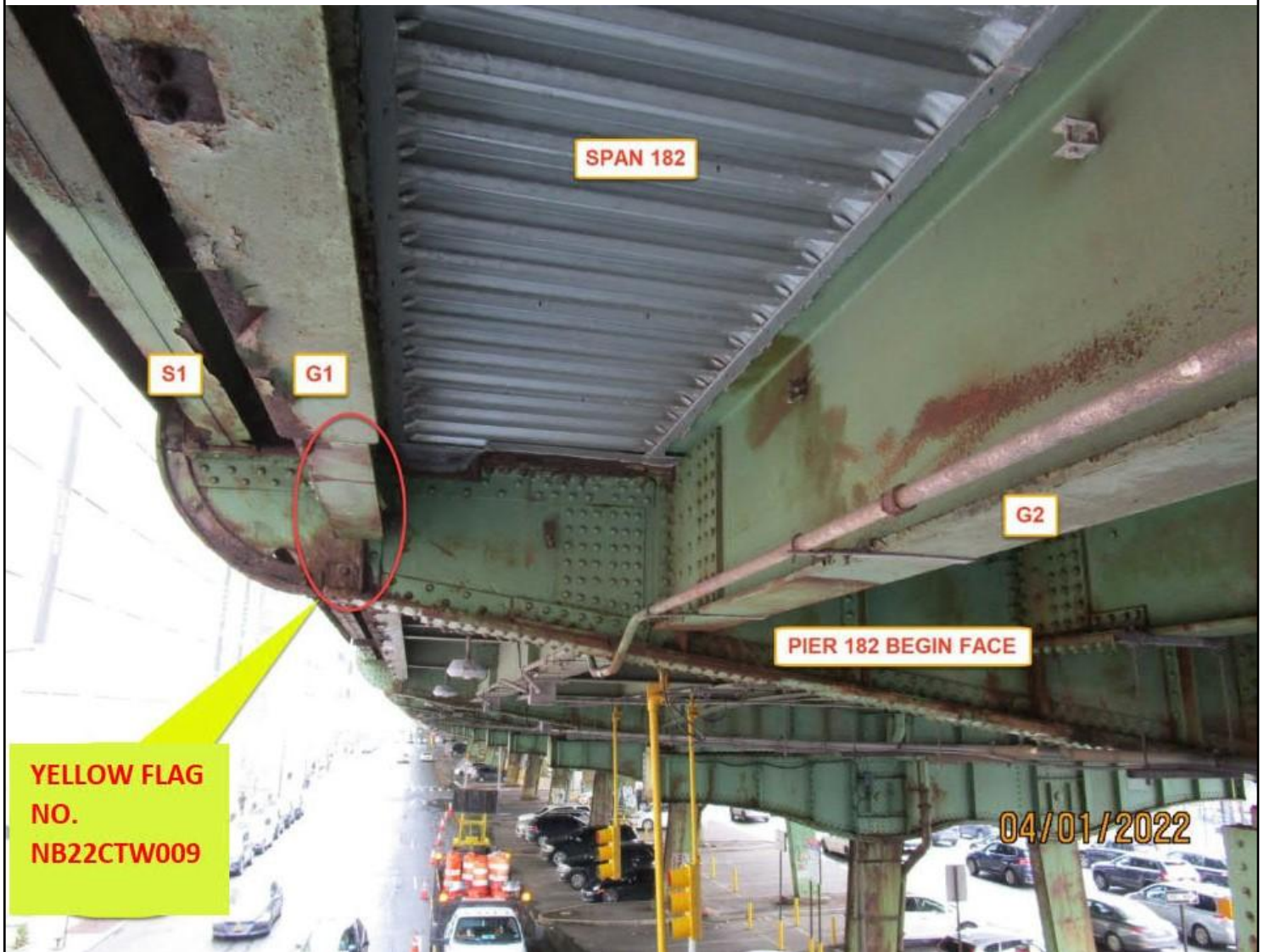
Notes:

1. The stiffener connection angle at the right side has a 2" H x 2" W corrosion hole below the bottom flange of Girder G1 and a second corrosion hole at the base measuring 2" x 1-1/2". (Both holes with slight changes from the previous inspection).
2. The adjacent Stringer (left) S1, acts as a support for the railing and curb area above and has heavy corrosion at the right-side connection angle with up to 3/16" section loss for 3" long. In addition, the bottom flange right side angle has a 4" x 2-3/4" corrosion hole. There is no significant change in the condition since the previous inspection.
3. The adjacent Girder G2 (right) S2 has repair plates in good condition.
4. A double left lane closure on 3rd Avenue Westbound with shadow vehicle and a 35' bucket truck is required to access the flagged location.

Flag Photographs

Photo Number: 1

Photo Filename: Photo 1-RA 609_0389-edit.jpg



Attachment Description: General view of girder layout and flagged location. Looking end.

Photo Number: 2

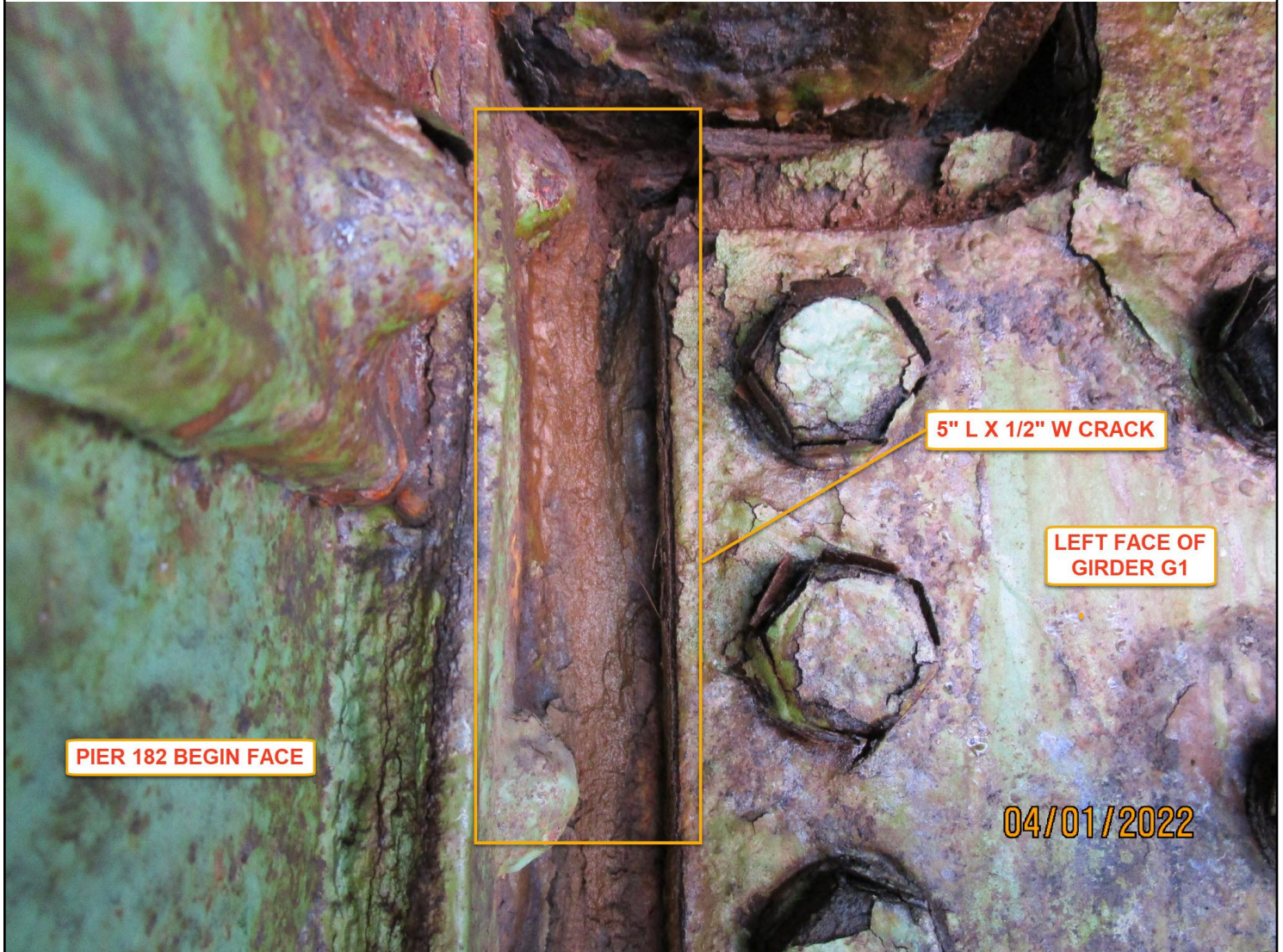
Photo Filename: Photo 2-RA 609_0391-edit.jpg



Attachment Description: General view of vertical crack at upper fillet of clip connection angle and corrosion holes at lower section of stiffener connection angle. Looking end right.

Photo Number: 3

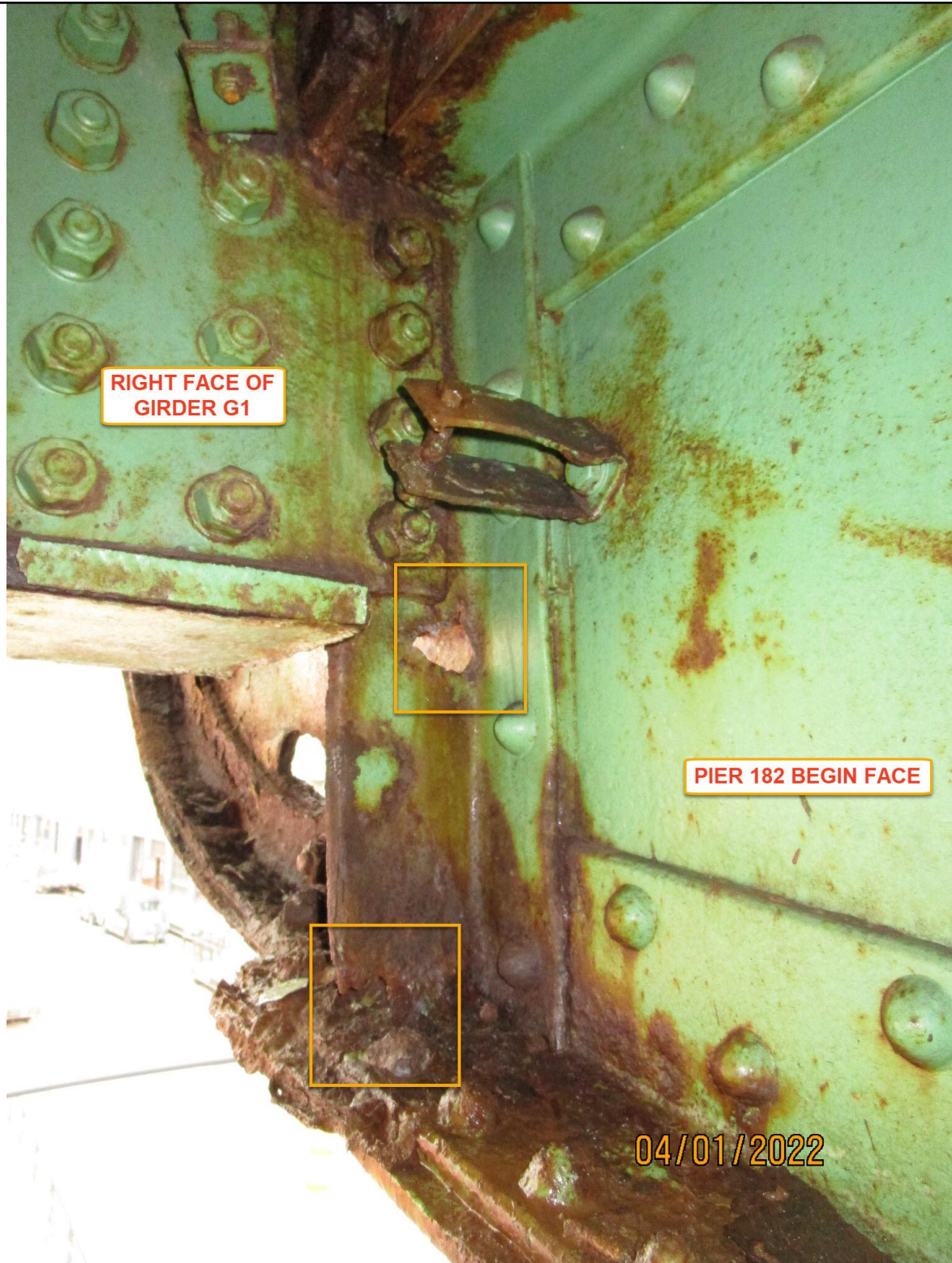
Photo Filename: Photo 3-RA 609_0394.jpg



Attachment Description: Close up view of 5" L x 1/2" wide corrosion crack at upper fillet of left side clip connection angle at connection to Pier Cap. Looking right.

Photo Number: 4

Photo Filename: Photo 4-RA 609_0397.jpg



Attachment Description: Upper section of stiffener connection angle at Girder G1 at Pier Cap connection is in good condition. The lower section exhibits corrosion holes. Looking end left.

Photo Number: 5

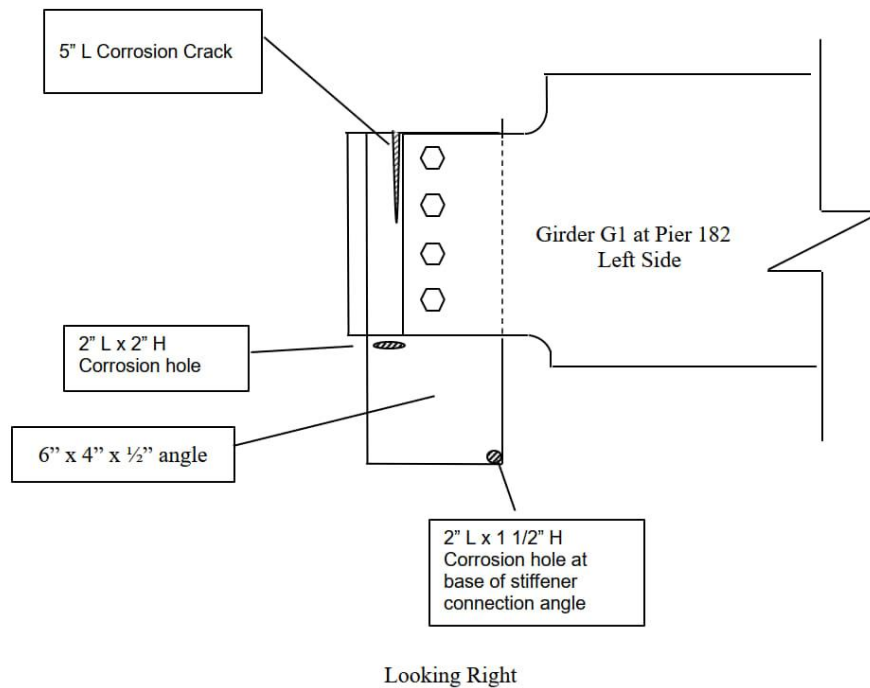
Photo Filename: Span 182_1065318-YF_Girder G1_04-01_22_1.jpg

Gowanus Expressway
BIN: 1065318

Date: 04/01/2022

Team Leader: Rehan Afridi
Assistant Team Leader: Marcos Perez

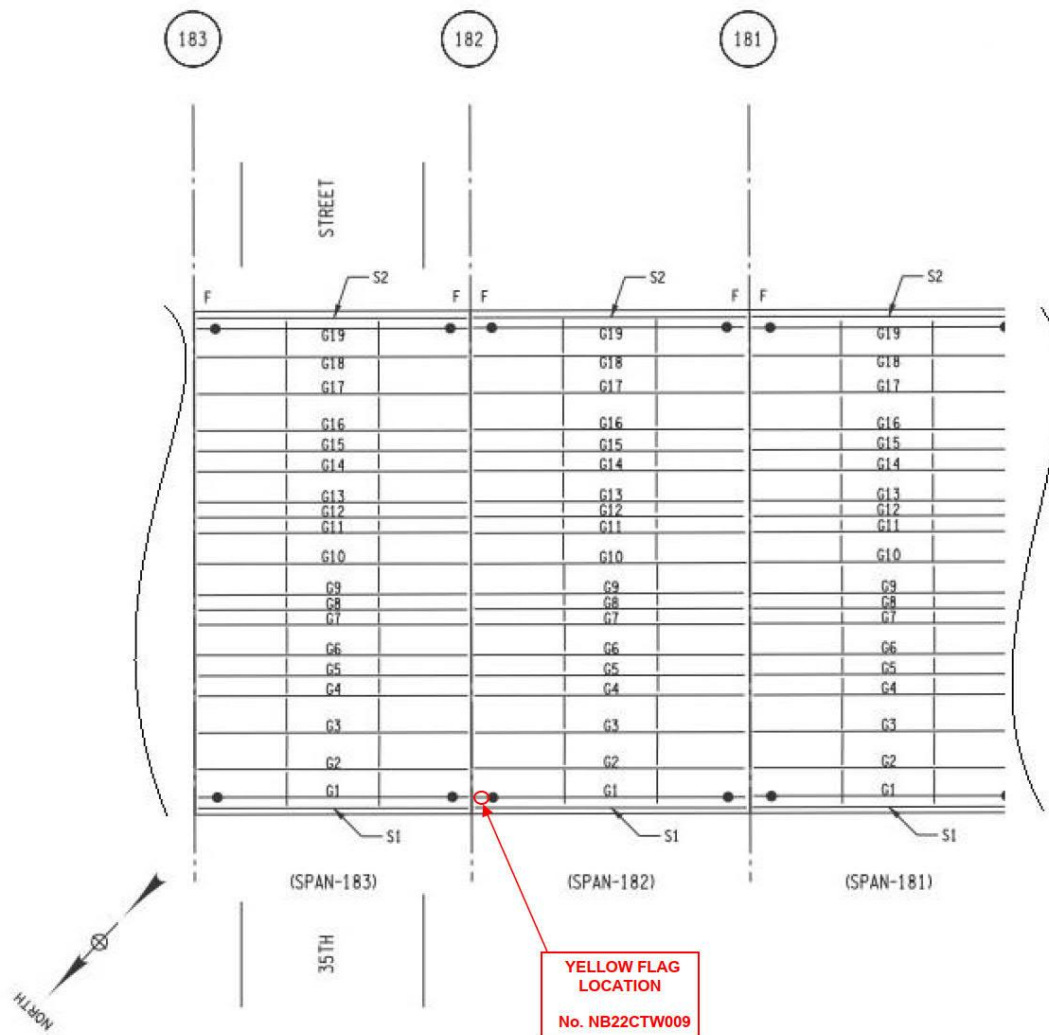
Location: Span 182 at Pier 182 Girder G1



Attachment Description: Span 182 G1 at Pier 182 Sketch

Photo Number: 6

Photo Filename: Framing Plan_Spans 181-183.jpg



Attachment Description: Span 182 G1 at Pier 182 Framing Plan